

WHAT IS CLAIMED IS:

1. A method of detecting soft tissue sarcoma comprising:
 - a. obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same individual or from a different individual;
 - b. determining the expression of a gene of Tables 1A-11C in the first soft tissue sample and the normal soft tissue sample; and
 - c. comparing the expression of said gene in the first soft tissue sample to expression of said gene in the normal soft tissue sample;
- wherein a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma.
2. The method of Claim 1, wherein said expression is measured using a labeled nucleic acid probe.
3. The method of Claim 1, wherein said first soft tissue sample and said normal soft tissue sample comprises isolated nucleic acids.
4. The method of Claim 3, wherein the isolated nucleic acids are amplified.
5. The method of Claim 3, wherein said isolated nucleic acids are mRNA.
6. The method of Claim 1, wherein said first soft tissue sample and said normal soft tissue sample comprises isolated polypeptides or proteins.
7. The method of Claim 6, wherein said protein expression is evaluated using antibodies.
8. The method of Claim 1, wherein said expression is measured utilizing a biochip.
9. The method of Claim 8, wherein said biochip comprises nucleic acids complementary to the gene of Tables 1A-11C.

10. The method of Claim 8, wherein said biochip comprises antibodies capable of binding a polypeptide or protein encoded by the gene of Tables 1A-11C.

5 11. An antibody that specifically binds a polypeptide or protein encoded by a gene of Tables 1A-11C.

12. The antibody of Claim 11, wherein the antibody is a humanized antibody.

10 13. The antibody of Claim 11, wherein the antibody is conjugated to an effector moiety.

15 14. The antibody of Claim 13, wherein the effector moiety is a labeling moiety or a therapeutic moiety.

15. A method for treating an individual with soft tissue sarcoma comprising administering an antibody of Claim 13.

20 16. A method for determining the prognosis of a human individual with soft tissue sarcoma cancer comprising determining the expression of a gene of Tables 1A-11C in a soft tissue sample of said human individual at different disease stages, wherein the expression of the gene at different disease stages is used to determine the prognosis of the human individual.

25 17. A method for generating an immune response in an individual to inhibit soft tissue sarcoma cancer comprising:

- a. purifying a polypeptide encoded by a gene of Tables 1A-11C; and
- b. administering said polypeptide of (a) to an individual.

30 18. A method for generating an immune response in an individual to inhibit soft tissue sarcoma cancer comprising:

- a. purifying a nucleic acid of Tables 1A-11C; and
- b. administering said nucleic acid of (a) to an individual.

19. A method for generating a marker for detecting soft tissue sarcoma in a pathological assay, comprising:
- a. purifying a polypeptide encoded by a gene of Tables 1A-11C;
 - 5 b. generating a binding partner to the polypeptide of (a); and
 - c. labeling the binding partner.
20. The method of Claim 19, wherein the binding partner is an antibody.
- 10 21. A method for screening for an agent capable of binding to a polypeptide encoded by a gene of Tables 1A-11C comprising:
- a. purifying a polypeptide encoded by a gene of Tables 1A-11C;
 - b. combining said polypeptide with a plurality of labeled agents;
 - c. capturing said labeled agent(s) bound to the polypeptide of (a)
 - 15 d. identifying the captured agent(s) of (d).
22. The method of Claim 21, wherein said capturing utilizes an antibody to the polypeptide of (a).
- 20 23. A method for screening for an agent capable of binding to a nucleic acid of Tables 1A-11C comprising:
- a. purifying a nucleic acid of Tables 1A-11C;
 - b. combining said nucleic acid with a plurality of labeled agents;
 - c. capturing said labeled agent(s) bound to the labeled nucleic acid of (a);
 - 25 d. identifying the captured agent(s) of (c).
24. A method of screening for a compound that modulates the expression of a gene associated with soft tissue sarcoma comprising:
- a. monitoring the expression level of a gene of Tables 1A-11C in a
 - 30 biological system expressing the gene of Tables 1A-11C;
 - b. administering a compound to said biological system;
 - c. comparing the expression of the gene of (a) prior to and after administering the compound;

wherein a change in expression level prior to and after administering the compound indicates that the compound is capable of modulating the expression of the gene.

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25. A method for detecting the presence of antibodies specific to soft tissue sarcoma, the method comprising:

- a. obtaining a first soft tissue sample from an individual;
- b. contacting said soft tissue sample with a polypeptide encoded by a nucleotide sequence of Tables 1A-11C:

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detecting the binding of antibodies from the soft tissue sample to the polypeptide of (b).